



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
RI RID 001194323

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Ciba-Geigy		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER Mill Street			
03 CITY Cranston	04 STATE RI	05 ZIP CODE 02910	06 COUNTY Providence	07 COUNTY CODE	08 CO. 3 DIST
09 COORDINATES LATITUDE 41 46 15.0		LONGITUDE 71 25 15.0			

10 DIRECTIONS TO SITE (Starting from nearest public road)

Route 95 to Park Avenue. Take a right on Mill Street. Ciba-Geigy is approximately 200 yards away on the left.

III. RESPONSIBLE PARTIES

01 OWNER (if known) Ciba-Geigy Corporation		02 STREET (Business, mailing, residential) 444 Saw Mill River Road			
03 CITY Ardsley	04 STATE NY	05 ZIP CODE 10502	06 TELEPHONE NUMBER 914 478-3131		
07 OPERATOR (if known and different from owner) Dr. Claude Trotter, Manager		08 STREET (Business, mailing, residential) 180 Mill Street			
09 CITY Cranston	10 STATE RI	11 ZIP CODE 02905	12 TELEPHONE NUMBER 401 467-8200		

13 TYPE OF OWNERSHIP (Check one)

- ☐ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER OPERATOR NOTIFICATION ON FILE (Check all that apply)

- ☐ A. RCRA 3001 DATE RECEIVED: ____/____/____ MONTH DAY YEAR ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: ____/____/____ MONTH DAY YEAR ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION <input type="checkbox"/> YES DATE 8 2 83 MONTH DAY YEAR <input type="checkbox"/> NO		BY (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ CONTRACTOR NAME(S): Perimeter Survey by Gerard Porter			
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02 SITE STATUS (Check one) <input type="checkbox"/> A. ACTIVE <input type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN	03 YEARS OF OPERATION 1949 present BEGINNING YEAR ENDING YEAR	<input type="checkbox"/> UNKNOWN
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04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Methylene chloride, carbon tetrachloride, chloroform, trichloroethane, acrylonitrile, phthalates, anthracenes, and numerous metals

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

The substances which Ciba-Geigy generates may pose a hazard to the immediate population through direct contact as well as affecting biological life in the Pawtuxet River from wastewater discharges.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one, if high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

- ☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☒ C. LOW (Inspection on time available basis) ☐ D. NONE (No further action needed, complete current condition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT John Hartley	02 OF (Agency, Organization) Rhode Island DEM		03 TELEPHONE NUMBER 401 277-2797	
04 PERSON RESPONSIBLE FOR ASSESSMENT Gerard Porter	05 AGENCY RIS	06 ORGANIZATION FIT	07 TELEPHONE NUMBER 617 275-2970	08 DATE 8 9 83 MONTH DAY YEAR





POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE RI 02 SITE NUMBER
RID 001194323

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
☐ B. POWDER, FINES
☐ C. SLUDGE
☐ D. OTHER _____
(Specify)
- ☐ E. SLURRY
☐ F. LIQUID
☐ G. GAS

02 WASTE QUANTITY AT SITE

(Measures of waste quantities
must be independent)

TONS 1500/yr

CUBIC YARDS _____

NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

- ☐ A. TOXIC
☐ B. CORROSIVE
☐ C. RADIOACTIVE
☐ D. PERSISTENT
☐ E. SOLUBLE
☐ F. INFECTIOUS
☐ G. FLAMMABLE
☐ H. IGNITABLE
☐ I. HIGHLY VOLATILE
☐ J. EXPLOSIVE
☐ K. REACTIVE
☐ L. INCOMPATIBLE
☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS	3,000,000	pounds	Liquid flammable waste
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
sol	Toluene	108-88-3	Tank car	22.77	%
sol	Acetone		Tank car	10.82	%
sol	Isopropanol		Tank car	17.86	%
sol	Special Naphtholite		Tank car	18.22	%
sol	Xylene		Tank car	16.37	%
sol	Heptane		Tank car	9.89	%
sol	Methanol		Tank car	1.84	%
			Total	100	%
occ	Pipes and hoses contaminated w/PCBs		Drums		
	These are examples of waste generated at Ciba-Geigy taken from manifest documents at RI DEM.				

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

1. Rhode Island DEM, project files
2. James Crowley, Manager, Safety, Health, and Environment at the Ciba-Geigy Plant in Cranston, RI



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
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II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: ? 02 ☐ OBSERVED (DATE:) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Groundwater could be contaminated from an underground oil collection system that is no longer in use.

01 ☐ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: ? 02 ☐ OBSERVED (DATE: 8/17/82) ☐ POTENTIAL ☒ ALLEGED
04 NARRATIVE DESCRIPTION

Joint sampling efforts by the Rhode Island DEM and EPA have detected measurable amounts of volatile organics, extractables, and metals in the Pawtuxet River.

01 ☐ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: ? 02 ☐ OBSERVED (DATE: 1/19/82) ☐ POTENTIAL ☒ ALLEGED
04 NARRATIVE DESCRIPTION

Air monitoring by EPA Region I detected contaminants in the air, but they were not considered to be a health problem.

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: ? 02 ☐ OBSERVED (DATE:) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Some population may be affected from direct contact with potentially contaminated soil.

01 ☐ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: (Acres) 02 ☐ OBSERVED (DATE:) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Soil may be contaminated from accidental spills or leaks.

01 ☐ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION



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PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
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II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (include name(s) of species)

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

Ciba-Geigy has discharged treated wastewater into the Pawtuxet River, which could potentially affect the food chain.

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES
(Spills, runoff, standing liquids, leaking drums)

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: 8/2/83)

☐ POTENTIAL

☒ ALLEGED

An underground drainage system used by Ciba-Geigy in the past to carry effluent from wastewater treatment tanks is contaminated with oil.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

Approximately 750,000 to 1.5 million gallons per day of wastewater generated at Ciba-Geigy is treated at the Cranston Treatment Works.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

1. Perimeter Survey of Ciba-Geigy by Gerard Porter, NUS/FIT, and John Hartley, RI DEM.
2. NUS project files on Ciba-Geigy.

NATIONAL PRIORITIES LIST CHECKLIST OF DATA REQUIREMENTS

Site Name: Ciba-Geigy, Cranston, Rhode Island
TDD No.: F1-8305-14
NUS Job No.: 3418 01 02

Notes:

<u>DATA ELEMENT/PATHWAY</u>	<u>Available</u>	<u>Not Appropriate</u>
<u>Ground and Surface Water and Air</u>		
1. Waste physical state	<u>yes</u>	
2. Persistence	<u>yes</u>	
3. Toxicity	<u>yes</u>	
4. Quantity	<u>yes</u>	
<u>Ground Water</u>		
1. Monitoring data (if yes, skip 1a, 1b, 1c)	<u>no</u>	
1a. Depth of aquifer	<u>yes</u>	
1b. Net precipitation	<u>yes</u>	
1c. Permeability	<u>yes</u>	
2. Ground water use	<u>yes</u>	
3. Distance to nearest down-gradient well	<u>no</u>	
4. Population served by wells within 3 miles	<u>yes</u>	
<u>Surface Water</u>		
1. Monitoring data (if yes, skip 1a, 1b, 1c, 1d)	<u>yes</u>	
1a. Slope of terrain		
1b. Rainfall intensity		
1c. Distance to surface water		
1d. Flood potential		
2. Surface water use	<u>yes</u>	
3. Critical habitats	<u>no</u>	
4. Population served	<u>yes</u>	
<u>Air</u>		
1. Monitoring data	<u>yes</u>	
2. Waste reactivity	<u>yes</u>	
3. Incompatibility	<u>yes</u>	
4. Toxicity	<u>yes</u>	
5. Distance to nearest population	<u>yes</u>	
6. Population within 1 mile	<u>yes</u>	
7. Critical environments	<u>no</u>	
8. Land use	<u>yes</u>	

NATIONAL PRIORITIES LIST
CHECKLIST OF DATA REQUIREMENTS
Page 2

<u>DATA ELEMENT/PATHWAY</u>	<u>Available</u>	<u>Not Appropriate</u>
<u>Fire and Explosion</u>		<hr/>
1. Ignition source	<u>no</u>	
2. Containment	<u>yes</u>	
3. Ignitability	<u>yes</u>	
4. Reactivity	<u>yes</u>	
5. Incompatibility	<u>yes</u>	
6. Distance to population	<u>yes</u>	
7. Distance to off-site building	<u>yes</u>	
8. Distance to sensitive ecosystems	<u>yes</u>	
9. Land use	<u>yes</u>	
10. Population within 2 miles	<u>yes</u>	
11. Buildings within 2 miles	<u>yes</u>	
<u>Direct Contact</u>		<hr/>
1. Evidence (if yes, skip 1a, 1b)	<u>no</u>	
1a. Accessibility	<u>yes</u>	
1b. Containment	<u>yes</u>	
2. Toxicity	<u>yes</u>	
3. Population within 1 mile	<u>yes</u>	
4. Critical habitat	<u>no</u>	
5. Land use	<u>yes</u>	